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(56) Documents Cited

GB 2260889 A GB 2143720 A
US 5956770 A US 5003637 A
US 3885249 A

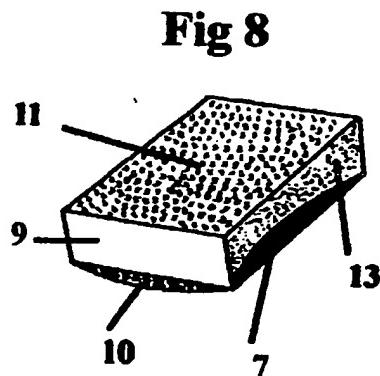
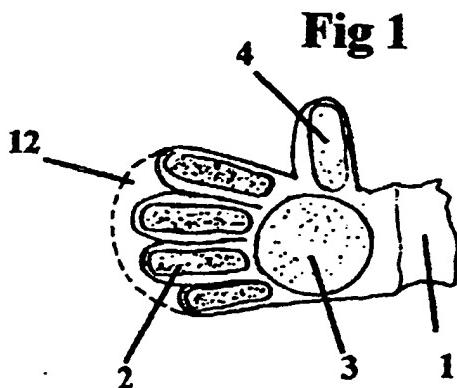
(58) Field of Search

UK CL (Edition S) A3V
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Online: WPI, EPODOC, JAPIO

(54) Abstract Title

Sanding glove with releasably attachable sanding pads

(57) A sanding glove or mitten 12 includes hook-and-pile (velcro (RTM)) pads on the fingers 2, thumb 4 and palm 3 of the hand to which are attachable velcro-backed abrasive sanding pads for hand sanding. The velcro pads are effectively hinged together by the glove fabric to allow free movement of the fingers and hand. In one form, the entire gripping face of the glove may be formed of velcro and in a preferred form, a velcro patch (14, figure 9) is provided on the rear of the glove for the attachment of spare sanding pads. Also described are a velcro-covered glove for securing velcro-covered objects and a velcro-covered sanding block to allow the attachment of velcro-backed sanding pads.



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Fig 2

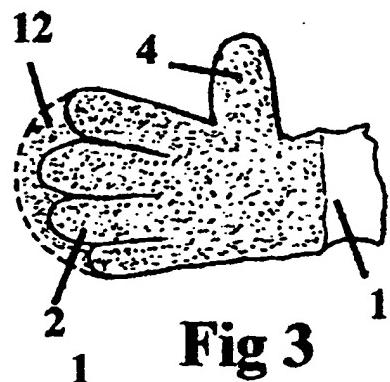


Fig 3

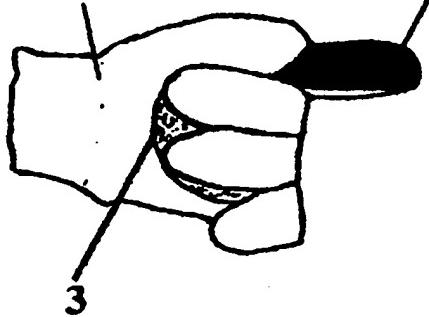


Fig 1

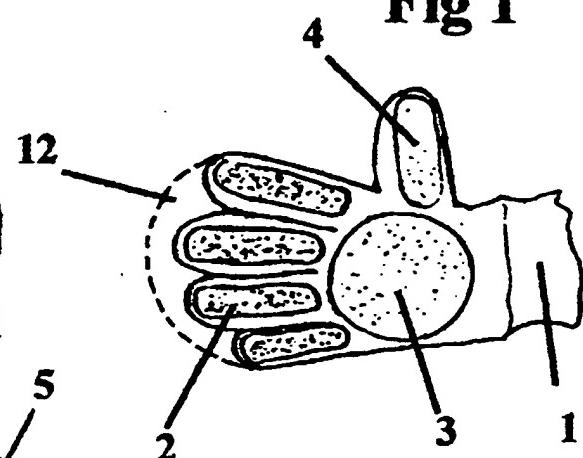


Fig 4

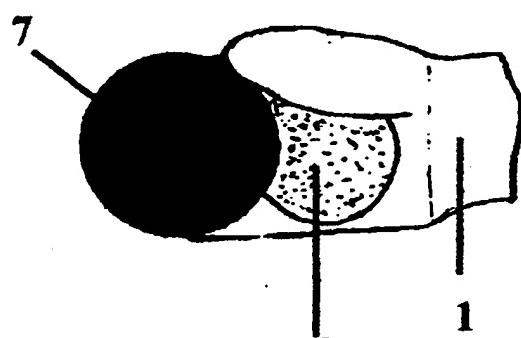


Fig 5

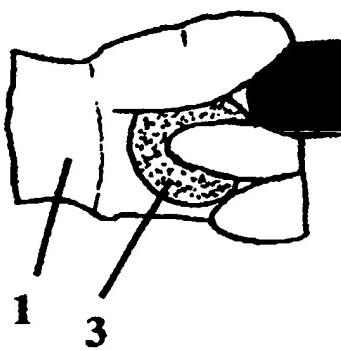


Fig 6

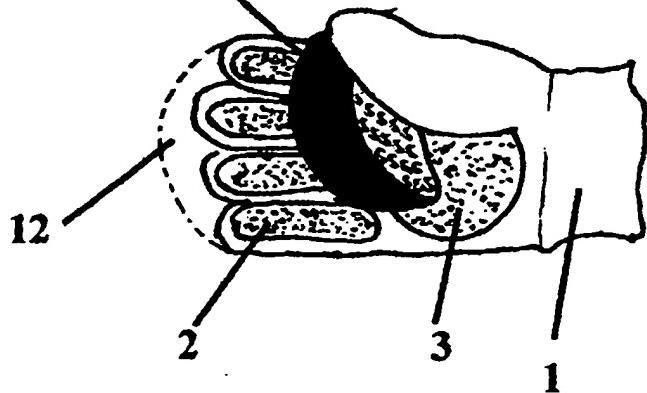


Fig 7

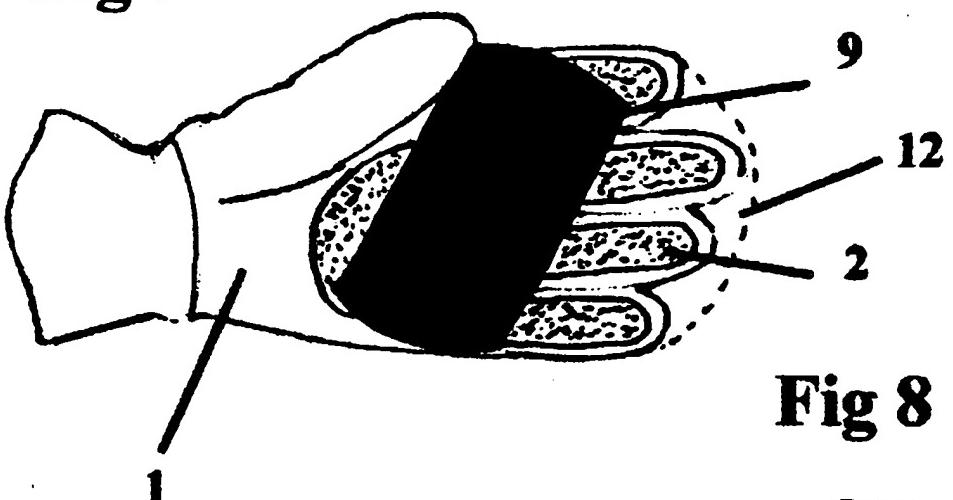


Fig 8

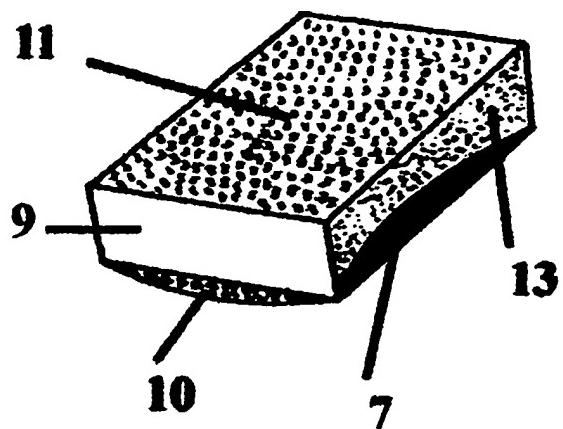


Fig 9

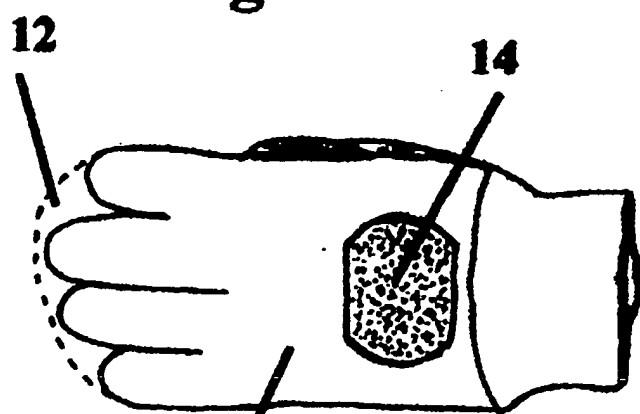
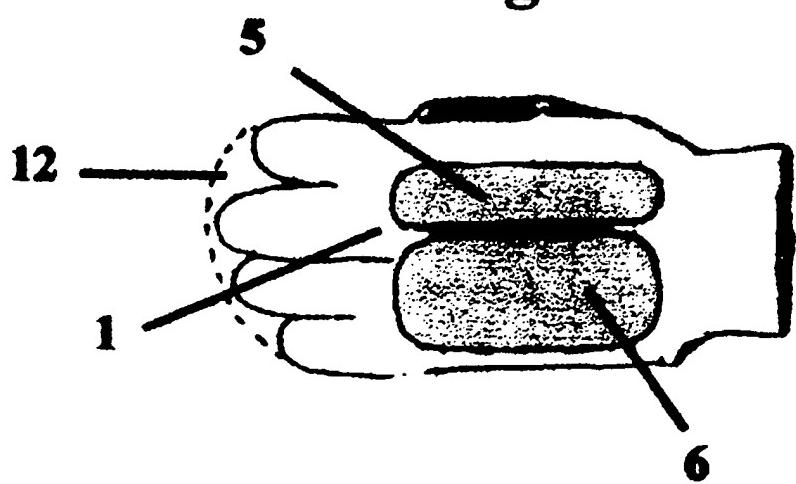


Fig 10



PAD HOLDER

[Technical field]

This invention relates to a Velcro (RTM) glove or mitten for holding Velcro backed abrasive sanding pads for hand sanding

[Background] Abrasive sanding pads are used in all industries for achieving a smooth surface finish, there are many hand held electrical tools which are made to hold sand paper abrasives for carrying out this work.

1. The disadvantage of using electrical sanding tools is they are only good for a flat surface.
2. Electrical sanding tools are clumsy and difficult, sometimes impossible to use in a confined place.
3. Final finish is always best achieved by hand and feel.
4. The only problem with hand sanding is the abrasives wears away the skin from your fingers and can be very painful, most times this happens without realizing until it is to late, taking several days to recover from this type of injury, which can result in the possible loss of work.

[Essential Technical Features]

According to the present invention there is provided a Velcro Sanding Glove for attaching Velcro backed Abrasives to the hands, the sanding glove also protects the hands from coming in contact with the Abrasive face of the sand paper .

Figure 1. Shows a glove or mitten with the palm side of the glove covered with Velcro patches.

Figure 2. Shows a glove or mitten with the palm maid from Velcro .

Figure 3. Shows the glove with one finger abrasive sanding pad attached to the index finger .

Figure 4. Shows the glove or mitten with abrasive sanding pad attached to the fingers and palm.

Figure 5. Shows the glove with a two finger abrasive sanding pad attached to the index & middle finger .

Figure 6. Shows the glove or mitten with an abrasive sanding pad attached between the fingers and thumb.

Figure 7. Shows a sanding block securely attached to the palm of the glove.

Figure 8. Shows a sanding block with male Velcro attached to both longitudinal sides of the block and bottom surface, the top of the block is covered with female Velcro.

Figure 9. Shows the back of a sanding glove with a Velcro pad 14 for storing spare pads.

Figure 10. Shows the back of a sanding glove with a one finger abrasive pad 5 and a two fingered abrasive pad 6 attached to the Velcro storing pad.

Referring to the drawings Fig 1.1 shows a glove or mitten 12 with male Velcro attached to the fingers 2, thumb 4, and palm of the hand 3 to allow female Velcro backed abrasive pads to be attached to the glove or mitten. The material of the glove acts as a hinge between the Velcro pads allowing the hand to be clenched with free movement of the fingers and thumb to form any necessary shape to suit the contour to be sanded. The front of the glove Fig 2.1 or mitten 12 can be completely made from male Velcro. Fig 3. 5 Shows abrasive finger pad attached to the index finger for sanding small area in confined places. Fig 5. 6 is a two fingered pad attached to the index and middle finger for a more accessible area, Fig 4.7 is a standard Velcro backed abrasive pad attached to the fingers and palm of the hand for large flat areas of sanding, Fig 6.8 abrasive pad held between the fingers and thumb for sanding round edges. As the sanding pad wears simply pull it off the Velcro glove and stick a new one on. The sanding glove protecting the hands at all times allowing more pressure to be applied to the abrasive sanding pads.

There is also provided a sanding block Fig 8. which has male Velcro attached to both longitudinal sides 13 and the bottom face of the block, to allow the female back 10 of an abrasives sanding pad 7 to be attached to the bottom of the block, the top of the block 11 is covered with female Velcro to allow the block to be attached and securely held in the palm of the sanding glove Fig 7 for sanding flat surfaces. The sanding glove1 also has a male Velcro patch on the back of the hand Fig 9.14 for storing abrasive sanding pads Fig 10.5&6.

ITEM LIST

01. GLOVE
02. MALE VELCRO ATTACHED TO THE FINGERS.
03. MALE VELCRO ATTACHED TO THE PALM OF THE HAND.
04. MALE VELCRO ATTACHED TO THE THUMB.
05. VELCRO BACKED ABRASIVE FINGER PAD.
06. VELCRO BACKED ABRASIVE TWO FINGER PAD.
07. VELCRO BACKED ABRASIVE SANDING PAD.
08. VELCRO BACKED ABRASIVE SANDING PAD ATTACHED BETWEEN THE FINGERS AND THUMB.
09. VELCRO COVERED SANDING BLOCK.
10. FEMALE VELCRO BACK OF THE ABRASIVE SANDING PAD.
11. FEMALE VELCRO.
12. MITTEN.
13. MALE VELCRO.

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CLAIMS

1. A Velcro (RTM) sanding glove which has male Velcro to the grip side faces of the thumb, fingers and palm of the hand, to allow female Velcro backed abrasives sanding pads to be securely fixed in any position on the glove that is required for hand sanding.
2. A Velcro sanding glove as claimed in Claim 1 where the male Velcro pads are hinged together by the material forming the glove allowing free movement of the fingers.
3. A Velcro sanding glove as claimed in Claim 1 or Claim 2 where the whole of the inside gripping face of the glove is made from Velcro.
4. A Velcro sanding glove as claimed in Claim 2 or Claim 3 that protects the hand and fingers against contact with the abrasive side of the sanding pad.
5. A Velcro sanding glove as claimed in Claim 3 or Claim 4 that has a male Velcro patch on the back of the glove for carrying spare abrasive sanding pads.
6. A male Velcro covered glove for securing objects that are covered by female Velcro or have female Velcro attached to them.
7. A female Velcro covered glove for securing objects that are covered by male Velcro or have male Velcro attached to them.
8. A Velcro covered sanding block which has the sides and bottom surfaces covered with male Velcro to allow female Velcro backed abrasives sanding pads to be securely fixed to the block for hand sanding.
9. A Velcro covered sanding block as in Claim 8 that has female Velcro covering the top surface of the block to allow it to be securely fixed in the palm of the sanding glove.



Application No: GB 0027736.8
Claims searched: 1 - 7

Examiner: Dean Lacey
Date of search: 18 January 2001

Patents Act 1977
Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.S): A3V

Int Cl (Ed.7): A41D: 19/00, 19/01

Other: Online: WPI, EPODOC, JAPIO

Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
X, Y	GB 2260889 A (Minnesota Mining) Whole document relevant. See e.g. page 7 lines 15 - 22 and lines 24 - 34	X: 1-3-7 Y: 2
X, Y	GB 2143720 A (Moore) See figures and page 2 lines 60 - 68	X: 1-4,6,7 Y: 5
X, Y	US 5956770 A (Dennis) See esp. fig. 2	X: 6,7 Y: 2
X, Y	US 5003637 A (Lonon) See esp. fig. 1 and col. 2 lines 26 - 30	X: 6,7 Y: 5
X, Y	US 3885249 A (Van Damme & Zonen) Whole document relevant. See e.g. abstract	X: 1,3-7 Y: 2

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
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